PDR RID Report

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Document SDPS - Data Processing Subsystem

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Section 9.2.4.3.2.1 **Page** 9-106 **Figure Table** N/A

Category Name Design-Data Processing

Sub Category

Subject PGE Resource Limits

Actionee HAIS

Description of Problem or Suggestion:

How do we change our PGE allocations after AI&T? What happens after a PGE is terminated for exceeding its limits? Does the data just not get processed?

Originator's Recommendation

We should be able to change our limits AFTER AI&T if we get a better idea of our true limits. We should also be able to change the limits in almost real-time so that unprocessed data (from terminated PGEs) can be processed very soon after the limits are exceeded.

GSFC Response by: **GSFC Response Date**

HAIS Response by: Eisenstein **HAIS Schedule** 4/21/95

HAIS R. E. M. Shannon **HAIS Response Date** 5/10/95

re Question 1: While these estimates from Algorithm Integration and Test will be used as a baseline, these allocation estimates are deemed to be dynamic. Resource allocations for a PGE will be determined during the Algorithm Integration and Test period following submittal of new Science Software. The resource allocation estimates developed during Algorithm Integration and Test will be used during the creation of predictive Production Plans to assist in the planning of resource utilization. Also, these estimates will be used to assist in the monitoring of the execution of a PGE in the production environment. Each time that a PGE is executed, new resource allocation statistics will be captured and will be used to update the resource allocation estimates that were developed during the initial Algorithm Integration and Test period.

re Question 2: Violation of resource allocation limits is one type of an exception or error condition which can occur during the execution of a PGE and is covered by general production management and processing capabilities. Their design is an ongoing activity (Please refer to RID 416 for more information). It includes the capability to associate actions with an exception, such as alerting the operations staff or terminating the process. The exception responses will be determined by what the Instrument Team requires and will be established during the Algorithm Integration and Test period. These responses may also be modified when necessary by DAAC staff. or Instrument Teams. In the case where a PGE is terminated, all data from this PGE will be captured and will be made available to the responsible parties for problem diagnostics and resolution.

Status **Closed** **Date Closed** **5/24/95** **Sponsor** **Kempler**

****** **Attachment if any** ******